APPENDIX 11

Weights and measures

UNITED STATES UNITS WITH METRIC EQUIVALENTS

1 inch=2.540 centimeters.
1 foot=0.8048 meter.
1 yard=0.9144 meter.
1 mile=1.600 kilometers.
1 square yard=0.8361 square meter.
1 acre=0.4047 hectare.
1 square milo=2.590 square kilometers.
1 cubic inch=16.39 cubic centimeters.
1 cubic foot=0.02832 cubic meter.

1 cubic yard=0.7646 cubic meter.

l liquid quart=0.9463 liter.
I gallon=231 cubic inches=3.785 liters.
I bushel (measured)=2,150.4 cubic inches=35.24 liters.
I avoirdupois ounce=28.85 grams.
I troy ounce=31.10 grams.
I pound=0.4638 kilogram.
I long ton=2,240 pounds=1.0160 metric tons of 1,000 kilograms.

1 short ton=2,000 pounds=0.9072 metric ton.

UNITED STATES GALLON AND BUSHEL WITH BRITISH EQUIVALENTS

1 United States gallon=231 cubic inches=0.8331 imperial gallon.
1 United States bushel=2,150.4 cubic inches=0.9694 imperial bushel.

OFFICIAL WEIGHTS OF THE BARREL OF NONLIQUID PRODUCTS

	Pounds	Kilograms
Wheat flour, barley flour, rye flour, and corn meal (nct) ¹ Rosin, tar and pitch (gross) Fish, pickled (net) Lime (nct) Cement (4 bags counted as 1 barrel) (nct) ¹	196 500 200 200 376	88, 90 226, 80 90, 72 90, 72 170, 55

¹ Except as noted in the tables.

OFFICIAL WEIGHTS OF THE UNITED STATES BUSHEL

		:	Pounds	Kilograms
Wheat, beans, peas, potatoes (Ir'sh or whi Rye, corn (malze), linseed (flaxseed), masl Barley, buckwheat Onions Rough rice Malt Oats Peanuts, green, in shell Castor beans	in (mixed grain)		60 56 48 57 45 34 32 22 50	27. 22 25. 40 21. 77 25. 86 20. 41 15. 42 14. 51 9. 68 22. 68

APPROXIMATE WEIGHT OF PETROLEUM AND PRODUCTS

In the United States petroleum and its products are measured by bulk, not weight. Whether handled in containers or without them the quantities are customarily reduced to the equivalent of barrels of 42 United States gallons (barrel thus equals 158.984 liters). In many foreign countries these commodities are measured by weight. The specific gravity of the different grades of crude petroleum and of the finished products varies materially. On the basis of approximate averages the Department of Commerce in converting foreign weight statistics to gallons or barrels of 42 gallons uses the factors shown in the following table:

	WEIGHT OF UNITED STATES GALLON		WEIGHT OF BARREL OF 42 GALLONS	
	Pounds	Kilo- grams	Pounds	Kilo- grams
Crude petroleum Lubricating oils Illuminating oils (kerosene) Gasoline and related products (motor spirit, benzine, etc.) Fuel and gas oils	7.3 7.0 6.6 6.1 7.7	3, 311 3, 175 2, 994 2, 767 3, 493	306. 6 294. 0 277. 2 256. 2 323. 4	139, 07 133, 36 125, 74 116, 21 146, 69

STATISTICAL ABSTRACT SUPPLEMENTS

County and City Data Book, 1952. A compact presentation of 128 items of statistical data for each county and standard metropolitan area in the United States, and 133 items of statistical data for each of 484 cities having 25,000 or more inhabitants in 1950. Items included based largely on results of 1950 Censuses of Agriculture, Population and Housing. Includes 51 maps, explanatory and definitive text, and source notes. 608 pages. Issued 1953. Second printing. Price \$4.25 (Buckram).

Historical Statistics of the United States, 1789–1945. A supplement to the Statistical Abstract, prepared with the cooperation of the Social Science Research Council. A compilation of about 3,000 statistical time series, largely annual, extending back through time to the earliest year for which figures are available. Includes definitions of terms and descriptive text. Specific source notes provide a basic guide to original published sources for further reference and additional data. Detailed alphabetical subject index. 363 pages. Issued 1949. Fourth printing. Price \$3.25 (Buckram).

Continuation to 1952 of Historical Statistics of the United States, 1789-1945. Carries forward and presents revisions of the statistical time series contained in Historical Statistics of the United States, 1789-1945. Designed especially for use in conjunction with the Historical Statistics volume. 79 pages. Issued 1954. Price 55 cents.

Purchase orders should be addressed to the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C.